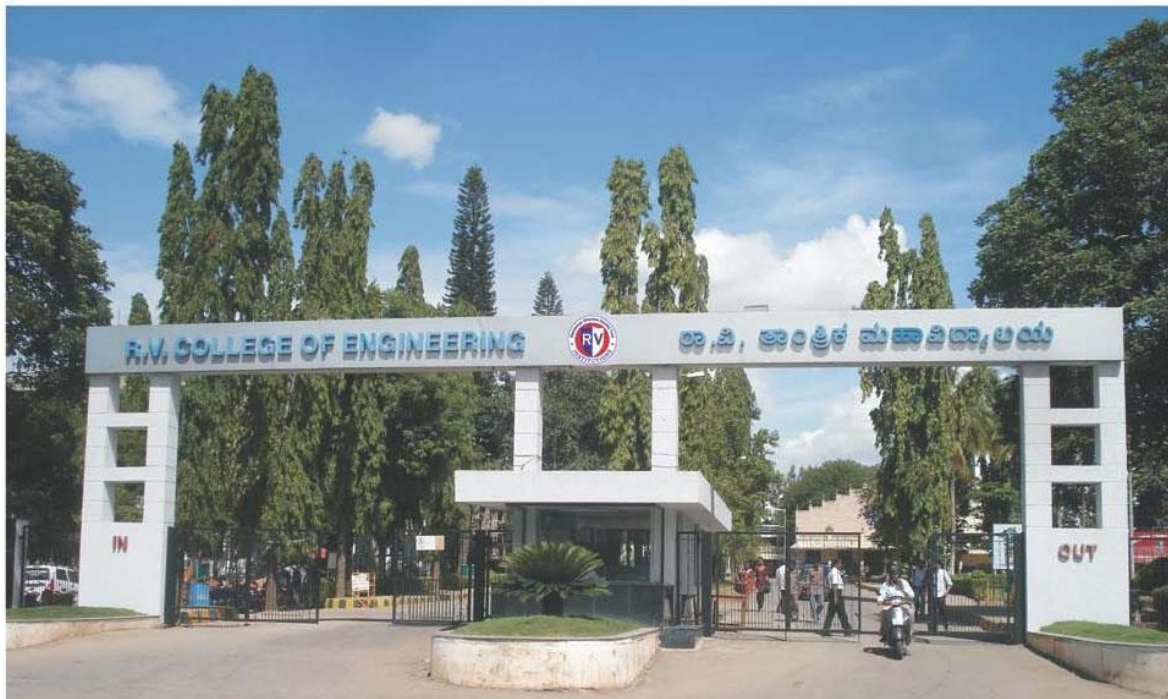# RV COLLEGE OF ENGINEERING®

(Autonomous Institution Affiliated to VTU, BELAGAVI)

RV Vidyaniketan Post, Mysore Road, BENGALURU - 560 059

HAND BOOK OF GENERAL INFORMATION

Academic Rules, Regulations and Guidelines for Students of Undergraduate Program of

2018 SCHEME

(WITH EFFECT FROM 2018-19)

VISION

Leadership in Technical Education, Interdisciplinary Research & Innovation, with a Focus on Sustainable and Inclusive Technologies.

MISSION

- To deliver **O**utcome **B**ased **Q**uality **E**ducation, emphasizing on **e**xperiential learning with state of the art infrastructure.
- To **c**reate a conducive environment for **i**nterdisciplinary research and innovation.
- To develop professionals through **h**olistic education focusing on individual growth, discipline, integrity, ethics and social sensitivity.
- To nurture industry-institution **c**ollaboration leading to competency enhancement and entrepreneurship.
- To focus on technologies those are **s**ustainable and **i**nclusive, benefiting all sections of the society.

Glossary of Abbreviations		
a	**Academic Autonomy**	Freedom given to a College in all aspects of conducting its academic programs, granted by the University for promoting excellence (within the guide lines of VTU)
b	**AC**	Academic Council
c	**Autonomous College**	College designated as an autonomous college by the university, as per the VTU Autonomous College Statute- 2006.
d	BoS	Board of studies
e	**CIE**	Continuous Internal Evaluation
f	**Commission**	University Grants Commission
g	**Council**	All India Council for Technical Education
h	**CGPA**	Cumulative Grade Point Average
i	**GAC**	Grading Advisory Committee
j	**Lateral Entry**	Such students who have joined the program in the second year of four-year program
k	**MHRD**	Ministry of Human Resources Development
l	**NSAR**	Not Satisfied Attendance Requirement
m	**NSSR**	Not Satisfied Sessional Requirement (did not get the Minimum CIE requirement to appear for SEE)
n	**Regular B. E**	Such students who have joined the program in the first year of four- year program
o	**SEE**	Semester End Examination
p	**SGPA**	Semester Grade Point Average
q	**University**	Visvesvaraya Technological University (VTU)
r	**UG**	Undergraduate Program
s	**PG**	Postgraduate Program

RV COLLEGE OF ENGINEERING®, BENGALURU-560 059
(AUTONOMOUS INSTITUTION AFFILIATED TO VTU, BELAGAVI)

CONTENT

1.0. PROFILE OF THE INSTITUTION

1.1 Rashtreeya Sikshana Samithl Trust (RSST)

The last decade of pre-independence India was marked with several initiatives and entrepreneurial ventures. One such unique venture was the founding of Rashtreeya Sikshana Samithi Trust (RSST), by Sri. M.C. Sivananda Sarma, a freedom fighter and a scholar in the year 1940. The organization started with a noble mission to impart quality education to all sections of the society, without any favour or bias towards any one. Today, the charitable trust provides avenue for quality education, catering to a wide sector of educational needs, starting from kindergarten to post graduate education as well as research in advanced engineering, medical and architecture domains. The sustained growth and success is due to the dedicated efforts of the management and their continued commitment to the founder's vision, mission, quality, continuous improvement and concern towards social responsibility. Today the trust is managed by a very distinguished board of trustees led by **Dr. M.K. Panduranga Setty, President & Chairman Governing body, Sri. C.V. Hayagriv and Shri Panditharadhya, Vice Presidents, Shri K.G. Subbarama Setty, Hon. Treasurer, Shri A.V.S. Murthy, Hon. Secretary and Shri D.P. Nagaraj, Hon. Joint Secretary**.

The board of trustees recognizes the importance of holistic education and a need for a learning environment that nurtures healthy competition and innovation. Rashtreeya Sikshana Samithi Trust **manages over twenty educational institutions including schools, colleges offering degree and post graduate programs in different specialties**. RSST continuously strives to create state of art infrastructure, recruit excellent faculty and facilitate efficient administration in all its institutions to provide congenial ambiance for learning. Today RSST is regarded as one of the finest and the best managements in education in the country.

1.2 RV College of Engineering
Marching towards Excellence in Education, Research and Innovation

Rashtreeya Vidyalaya College of Engineering (RVCE) established in 1963 is one of the earliest self-financing engineering colleges in the country. **R.V. College of Engineering** is the flagship institution of RSST. RVCE provides opportunities to all sections, including to the under privileged, differently abled and socially marginalized people to gain engineering skills through various programs like WEST-Women Empowerment and Skill Training etc.

RVCE is rated amongst the top five self-financing engineering colleges in the country, and some magazines have rated it as the best institute in the country among private institutes, including in terms of the **best Return on Investment for a student.** RVCE is a preferred destination for top ranking aspirants, both for UG and PG programs. RVCE is an **Autonomous college**, affiliated to **Visvesvaraya Technological University** (VTU), Belagavi. It has its own Academic Council which is empowered to approve academic curriculum as suggested by Board of Studies of various programs. All the processes are followed as per the **VTU guidelines for autonomous institutions**. RVCE currently **offers 12 Bachelor, 19 Master Programs** with also provision for Ph. D studies in all the departments and carries out Research and Consultancy activities. All UG programs have been accredited multiple times. Some of the PG programs have been accredited and other eligible PG programs have gone for accreditation. The college currently has **student strength** of about **5600, faculty strength** of **more than 400**, **Technical & Administrative Staff** of **241** and about 230 Research Scholars are pursuing Ph.D.

The institution has set itself a Vision *"Leadership in Quality Technical Education, Interdisciplinary Research & Innovation, With a Focus on Sustainable and Inclusive Technology"*.

All its projects are in line with the vision of sustainable and inclusive technology development, with a focus to contribute to both technological leadership of the nation and at the same time contributing to the development and welfare of all sections of the society. RVCE is rapidly expanding its R&D activity and Industry academic collaboration.

1.2.1 Academics & Autonomy

RVCE was granted Autonomous Status by the VTU, UGC and Government of Karnataka in the year 2007, for its undergraduate programs. Being an Autonomous college affiliated to VTU, RVCE prescribes its own syllabi and academic activities. A special emphasis is on **experiential learning** and **Outcome Based Education (OBE).** The academic activities concentrate on helping the students to gain an excellent theoretical knowledge base and in the development of skills to implement them. The latest teaching aids from multimedia equipment to simulation techniques ensure a thorough learning process. The college regularly invites experts and industry professionals to impart practical skills and lessons to students. Industrial visits are encouraged to help the students to grasp the technology at work. It is up to the student to take advantage of opportunities provided and build a bright future.

Outcome Based Education (OBE)

- UG programs are for 175 Credits, out of which, 50 credits are for Experiential Learning and Project Based Learning.
- Regular advanced Pedagogical Training for faculty to enhance Teaching-Learning Process.
- Students are involved in use of ICT tools including e-learning material, QEEE, MOODLE, NPTEL, MOOCS, as a part of Experiential Learning.
- Flipped Class Room and other ICT initiatives in Teaching & learning.
- Initiation of research culture for first year students through Journals reference for self-study & assignment.
- Use of Online Assessment, Software Assisted Learning, EDUSAT Programs and Language Lab.
- Designing and recording of Course Material in Digital Media Centre.
- RVCE's unique initiative includes providing all students with a platform to engage in research and innovation. This has led to development of India's first PICO satellite, Formula style combustion, hybrid and electric Racing Cars, Unmanned Aviation Vehicles (UAV's, Radio- controlled and Autonomous) and Robotics. The students have consistently won awards not just in India but all parts of the world. The Formula Hybrid team of RVCE has won 2nd position in the worldwide Formula Hybrid competition conducted by SAE & IEEE held in New Hampshire, USA consistently during the last two years in 2017 & 2018. The All-Terrain Vehicle team has won 2nd position in the acceleration event in addition to overall commendable performance at the International Baja competition conducted by SAE held in USA in 2016. Recently the students have initiated a new project 'Antariksh' which plans to build a Nano satellite and launch it with bio payload (first time in the history of Indian space mission) with support of ISRO in 2019. Team Krushi have developed automated aerial platform which works with hydraulic power of tractor and also participating in this year's ASABE competition held in USA.
- Believes in overall development of students. The institution encourages the students' participation in co-curricular and extra-curricular activities viz. Cultural, Sports, NCC, NSS, ROTRACT and other social clubs.

RVCE has leveraged its 10 years of autonomy to make education learner centric. Some of the facilities within the campus also provide an opportunity to the students to get oriented to the practical aspects of engineering. The whole campus is well and seamlessly connected with optical fiber and close to 250+ wireless access points located strategically all across the campus, with a further scope for scalability. Every student is given an official e-mail ID once he/she is admitted to the institution.

RVCE also has excellent labs including 35 labs set up by industry. Some of the companies who have set up labs include **IBM, EMC², Samsung, ABB, PACE Electronics, Freescale Semiconductor, CISCO, NXP, Texas Instruments, Wipro, Infosys, Bosch Rexroth, Mind Tree, Lapp Cable, Cognizant, Bosch, Keysight (Agilent), Sparx, TE Connectivity and Tejas Networks**. Further students have access to an exhaustive library with both printed and electronic version of books (>1 Lakh Volumes) and journals (> 4000 journals) and also a Digital Learning Center for developing e-learning material to facilitate the students. After successful completion of the program, more than 96% of the eligible students are placed through campus selection, or selected for higher education in the best of institutions across the globe and some even take up entrepreneurship.

1.2.2 *Achievements & Research Initiatives*

A. *Research Initiatives*
RVCE was one of the first colleges to have its entire Bachelor program accredited by National Board of Accreditation (NBA), as per the guidelines of the All India Council for Technical Education (AICTE), New Delhi, India. MHRD chose RVCE for the review /assessment of India's new NBA process by International Observers, to enable India to enter the Washington Accord. RVCE utilizes its expertise in various disciplines take up Research and Development for Industry and Defense Establishments in the country. Innovative projects are supported by the Management. RVCE has a collaborative arrangement with leading universities in Germany for Post-Graduate and Research programs. There are more than 200 scholars pursuing Ph.D. under the various Research Centers. 32 patents are either granted or filed by RVCE and plans are on to file over 50 patents by the end of 2018-19. In line with the roadmap to set up an Innovation and Incubation Center in the Golden jubilee year (2013-14), the first such a facility has been initiated with TE Connectivity. RV Incubation Center is started to promote Innovation Activation, Fostering Startups and Entrepreneurship Development. We intend to Support entrepreneurs to develop businesses, Accelerate growth and success of start-ups during initial stages, Provide shared co-working spaces, Provide highly conducive environment for Innovation activation, Provide technical mentoring for product development, Provide Lab/Fab facilities, Establish Networking and linkages, for product launching marketing, branding and for venture capital, Provide assistance/Organize seed funding, Provide statutory/legal assistance for company registration/taxation, Provide assistance for IPR. Any R V College Under graduate (7th Semester and above) or Post graduate students (3rd Semester and above), are given first preference. RV Alumni or any other technical graduate from other colleges who have good innovative Idea are also eligible.

RVCE's unique initiative include providing research, innovation and even environment for startup platforms for the graduate or bachelor students, as an integrated process in their curriculum. This has led to development of systems including India's first **PICO satellite, Hybrid automobiles, Unmanned Aviation Vehicles (UAV), Tele presence Robot and Racing Cars.** The students have consistently won awards not just in India, but in all parts of the world for their design and innovation. **The race car team has won the best Asian Team award at Italy consecutively for the last two years. The Autonomous Air Vehicle won a special mention by US Navy and best systems**

engineering award from NASA in USA. RVCE students have won awards for development/demonstration of innovative ideas from multiple agencies including ISA, Volvo, Motorola, Intel, Analog devices, Texas Instruments, IBM and KSCST. RVCE has leveraged its autonomy and in the last 8 years to make the education more learner centric and experiential. Students are encouraged to attend conferences and workshops and present their work.

RVCE was also awarded the *"Best Innovative Spirit Award"* at CII Innovation Conference in March 2012 for facilitating its students to participate in multiple technological contests. Strong Entrepreneurship development cell motivates the students to take up self-employment ventures. Already close to 10% of the alumni are entrepreneurs. Even last year a startup company by two of our outgoing students Mr. Srikanth Talwar and Ravikiran, competing with Multinationals, got selected to develop the online admission process for the Diploma Program, facilitated by KEA, Government of Karnataka. Mr. Arun Murthy, one of our alumni and one of the founders of "Horton works" which became the fastest ever venture to touch 100 million revenue in just 4 years. There are more than 1000 alumni who have their own ventures in India and abroad.

A. *Interdisciplinary Research & Innovation*

- More than Rs. 25 crores worth sponsored research projects executed in last 5 years and Rs. 15 crores worth projects in process.
- Executed more than Rs. 2.5 crores worth of consultancy work in the last three years.
- Journal Publications: H index 1 to 15 and I10 index 1 to 20
- Total Citations (last 3 years): Scopus Index– 1774, Google Scholars-6583, Web of Sciences-1034.
- Filed 32 Patents (last 3 years). 24 Patents have been published in the Gazette of the Indian Patent Office.
- Non Destructive Testing laboratory from VGST, GoK.
- High Performance Computing lab from DST, in CSE Dept.
- Centre of Excellence in Macroelectronics (MHRD-TEQIP II)
- CISCO-RVCE Centre of Excellence in Internet of Things (IoT)
- State-of-the-art Interdisciplinary Research Centre with sophisticated instruments / equipment.

B. *Achievements & Recognitions*

- **Ranked 58th** in the country - **NIRF-MHRD** during 2017-18.
- Team HELIOS stood 5th Place in overall ranking, 2nd Place in costing, 4th Place in Business Plan (among 75 participating teams) in the ATV Championship ESI Enduro held at Coimbatore during 4th -7th Jan. 2018.
- Team Fuzzy AI won 1st Runner Up in the AICTE- Smart India Hackathon 2018- Software edition (Part 2) & Hardware edition (Part 2) competitions during Apr. & June 2018.
- Engineering College of the Year-2017 award by the Higher Education Review Magazine.
- Ranked 7th among top 113 Pvt. Engg. Colleges by The Week Magazine.
- Ranked 8th among the top 10 of 100 Pvt. Engg. Colleges in the Country by Education World Magazine.
- Campus Partner: QEEE – IIT-Madras, Chennai and offered 49 online courses and visual lab. in the last three years.
- Well Performing Institute by MHRD-TEQIP (Phase – II) and graded 'A' at National level.

- High rank students prefer to join the institution through entrance exams including CET, COMEDK, GATE, PGCET.
- Best NCC Institute for Karnataka & Goa Directorate – 2017-18.
- Rated 'AA' grade by NPTEL based on performance in NPTEL Online Certification courses.
- Team Ashwa Racing won 2nd Place in the 2017 Formula Hybrid Competition (in the overall category) at New Hampshire Motor Speedway in Loudon, USA during Apr. 2017.
- Over 25 Alumni of RVCE have cleared Civil Services examinations since last 3 years.
- Ranked 2nd in Sports & Cultural Activities under VTU.
- Mr. Avinash M and Mr. Aravind M have been selected in the Indian Team to participate in the 18th Asian Games-2018 (Swimming Competition) to be held at Jakarta (Indonesia) from 18th Aug. to 2nd Sept. 2018.

C. *Some Other Unique Research and other Initiatives*

- Developing indigenous technology for growth of Nanomaterials, SoC and characterization equipment.
- Establishing a 100 KW biomass based power plant, and working on a wide range of biomass as fuel.
- A 14 KW Solar electrical grid tied power generator facility.
- Developing a novel technology for converting waste coal and lignite to clean fuel like methane and alcohol.
- Developing a novel amorphous silicon solar cell based Plasmonic cells.
- Developing high temperature (~400 to 500ºC) solar thermal receiver tubes.
- Developing environment friendly concrete using waste from different sources for civil construction which also uses lesser water and dries faster.
- Infrastructure set up to measure air and water quality.
- Developing indigenous process equipment, materials including metal-metal composites, fiber reinforced polymer composites and nano materials embedded composites for space, defense and avionic applications
- Developing compact wind mills
- Developing hybrid automobiles and all-terrain vehicles
- Rainwater harvesting over 6.5 million liters in the campus & Setting up STP plant in the campus for 250,000 liters
- Developing the 4th Generation antennas for communication technology for defense and space applications.
- Developing novel medical instrumentation for rural and telemedicine
- Establishing clean room facility for development of Large Area and Flexible Microelectronics and Vacuum Nano electronics

D. *Revised Focus on Research in line with the Institutional Vision*

By identifying institutional strength, interdisciplinary research areas have been identified, with the emphasis on creating a **Unique Selling Point (**USP) for the institute. The institute has also decided to work with industries big and small, in line with the RVCE Vision, to help RVCE and nation transform into a leader in Knowledge and Technology, as India was 500 years ago. RVCE is looking to contribute to sustainable development as practiced in ancient India and as advocated by the father of the Nation Mahatma Gandhi. The motto is, "**Leveraging global knowledge and delivering local solutions**".

In this process RVCE engages with industries and institutions:

- From small incremental development to development of disruptive innovation;
- Carrying out **Right from Market Survey to Concept Creation, Proof of Concept, Development, Testing & Verification to Pilot production;**
- Provision for end to end solution with indigenization and provision for scale up in collaboration with industries.

Research activities can be broadly classified under the following interdisciplinary research area as given below:

- Materials & Manufacturing engineering with additional capability for Design for Optimization of Manufacturing processes and production. Including polymers, composites, wide range of nano materials (metals, ceramics and semiconductors) and amorphous materials,.
- Sensors, Networks and Communication (up to THz).
- Nano Science, Surface Engineering & MEMS.
- Data Mining/ Data warehousing or Business Intelligence, Cloud Computing, High Performance Computing, Natural Language Processing,
- Environment Friendly and Sustainable Technologies with Enable Smart buildings and Smart Cities including Structural Engineering.
- Clean & Renewable Energy, Energy Efficiency & Management,
- Large Area and Plastic / Printable (Flexible) Microelectronics.
- Advanced Instrumentation including Medical Instrumentation.
- Highways and Transport technology.
- Signal & Image processing.

Some of the ongoing projects in line with the Institutional Vision of "Innovation for Sustainable and Inclusive Development" include:

- CISCO-RVCE Centre of Excellence in Internet of Things (IoT)
- **DST funded** project for Development of a novel nanomaterial enabled, inexpensive, amorphous silicon based Plasmonic solar cell on glass substrate.
- Developing environment friendly concrete for housing construction which also uses lesser water and dries faster, including using waste from different sources
- Study & Development of Image compression Algorithm for satellite Images for use for Bhuvan **(ISRO)**
- **ISRO** funded facility for monitoring air, wind, weather, noise and water and assessing its quality as also GPS and RS data analysis used for environment monitoring and city and town planning.
- Developing novel medical instrumentation including compact hand held X-ray sources and Ultrasound sources for affordable healthcare and telemedicine application
- Developing novel room temperature grown Nanocarbons based thin film transistor.
- A biofuel production and characterization facility (50 liters)
- Developing compact wind mills, solar PV and thermal systems and integrated power generation study
- Developed hybrid automobiles and autonomous aerial and underwater vehicles
- Harvesting over 10 million liters of Rainwater in the campus (**funded by KPMG**) and set up an STP plant in the campus for 250,000 liters, scalable to 5 Lakh liters. Also running an Effluent Treatment Plant (ETP).

- First institute in the country to offer courses and establish clean room facility for development of Large Area and Flexible Microelectronics and Vacuum Nano electronics. (technology useful for future use and throw electronics and wearable electronics).

1.2.3 Student Activities and Community Services Programs

Participation in NSS, NCC, Sports, and Cultural Activities are encouraged and given prime importance for overall development of the students. Sports persons are given adequate facilities in terms of allowances, uniforms and attendance to compete in university, interstate, national and international competitions. There are various cultural clubs in which the students can participate. Ms. Pooja Alava and M. Arvind have represented India in World Universities meet and World championships in various countries including Spain and Russia. Three RVCE students represented VTU at the inter-varsity Chess tournament at Malaysia and even enhanced their ELO ratings by wining individual and team prizes.

R V Centre for Social Services and Skills Promotion (SKIP) and Women Empowerment and Soft Skill Training (WEST), helps children and women to become trained and even become self-reliant. As a part of the social responsibility a FM Community Radio project is in the pipeline. RVCE can boast of its alumni cell and is in the process of further strengthening its links with over 30000 of its alumni.

RVCE is proud of the prominent alumni including Mr. Anil Kumble, Mr. Chetan Babbur in sports, Mr. Ashok Nayak Former HAL Chairman, Gopichand Kattargadda former MD GE JWTRC and currently CTO Tata group of companies, and Mrs. Vijayalakshmi Bidari, I.A.S. Officer, the list is endless. RVCE alumni also include many top CEOs, MDs, Sr.VP, VPs and General Managers in many National and International MNCs and state and central PSUs.

1.2.4 Infrastructure: The 52 Acres of serene Green Campus of RVCE has an infrastructure that provides excellent learning ambience:

- RVCE has 7,37,000 sqm of instructional area housing 15 departments.
- RVCE has 154 well-furnished class rooms and tutorials, most of them equipped with Multimedia Projectors supporting modern teaching techniques.
- RVCE has 13 Air conditioned seminar halls spread over the Campus.
- Spacious Laboratories / workshops with latest equipment catering to the respective programs.
- Interdisciplinary Research laboratories with latest equipment and software including facility for semiconductors device and integrated circuit fabrication.
- Fully equipped Placement and Training department with seminar hall, Group Discussion and interview rooms.
- The central Library is spread over 2088 sqm. It also has Digital library and internet facilities.
- The institution has an electrical Diesel generator backup of 780 KW and 14KW of solar power which is grid tied.
- Girls Common Room
- Complete networking of the entire campus with Wi-Fi facility for faculty and students.
- Six bedded fully equipped health center with one isolation ward.
- The sports facilities include Indoor Basketball court, Indoor shuttle Badminton court, Synthetic Tennis court, Football and Cricket grounds, spread over 25500 sqm.
- Multi Gym. Facility & fitness center.

- Four boys Hostel blocks in the campus that can accommodate about 1200 students and two girl's hostels near the campus that can accommodate about 350 students.
- Other support facilities available are: Post Office, Bank with ATM facility, Pharmacy, stationary shop and reprographic facility
- Spacious and modern Food Court.
- State-of-art Incubation Center.
- Virtual studio, RVCE-CISCO Video conference and IoT Training Center.
- RV-Kirloskar Center of Automotive lab.
- Skill development program from MCA.
- Centre of Competency for Automation Technologies (Bosch Rexroth Lab).
- High Performance Computing Lab.
- Merecedes-Benz training center.
- Soorya Mitra: Skill development training program.
- Smart Grid and Renewable Energy lab.

1.2.5 Faculty

The strength of RVCE is its Faculty and staff. There are around 400 faculty members in various cadres namely Professors, Associate Professors, Assistant Professors, and Visiting Professors as per AICTE norms. The faculty members have wide experience in academics, as scientists, industry professionals and Researchers drawn from various specializations and reputed institutions & organizations. Faculty not only expertise in modern teaching methodologies, they also have research projects and publications to their credit. The faculties are ably supported by 250 technical and administrative staff.

1.2.6 Students Achievements

Over the years there have been over **200 toppers** (rank holders and medalists) in University examinations. Over **100 sportspersons** have represented University, State and National in various levels of events. Many students have won prizes in Cultural Activities at University, State, National and International level events starting from dramatics to Quizzing. Due to a strong sports and cultural activities RV has been ranked the best institution in this arena.

1.2.7 The Industry-Institute Collaboration

Industry representatives are members of the BoS and AC. There are a few electives offered by industries to fill the gap between the industry requirement and curriculum. Technical lectures and industry visits are arranged by all the departments. Besides the programs and courses, the students also get the opportunity to take up internship at various industries, government organizations and public-sector undertakings, advanced R&D labs under DRDO, ISRO, CSIR and other agencies. The institution facilitates core courses, local and global electives in coordination with industries.
Innovation and Incubation Center have been setup. Four companies are in process of being incubated.

Thus, multiple platforms have been created for both students and faculty to jointly engage in Innovative projects and research. The outcomes of these efforts have been exhibited at science exhibitions and trade fairs and they have been highly appreciated by the scientific & business community.

In conclusion, RVCE with its extensive infrastructure, state-of-art technology, expansive laboratory facilities, valuable affiliations and recognitions, networked partner industries and R&D labs and

inspiring academic results, is keen to ensure that in the knowledge economy, the institute truly becomes an international class institute, in tune with its vision and mission. It is the aspirations of faculty and management to nurture and boast of many innovators and entrepreneurs, besides producing quality engineers and technologist for the country.

1.3 Academic Programs Offered

RVCE offers the following Undergraduate, Post-graduate & Doctoral study programs. RVCE also offers a wide range of proficiency courses, German courses and plans to start a series of certificate and diploma courses.

a) Undergraduate Program

Sl. No.	Program	Year of Starting
1	B.E. in Civil Engineering	1963
2	B.E. in Mechanical Engineering	1963
3	B.E. in Electrical & Electronics Engineering	1963
4	B.E. in Electronics & Communication Engineering	1972
5	B.E. in Industrial Engineering & Management	1980
6	B.E. in Electronics & Instrumentation Engineering	1981
7	B.E. in Chemical Engineering	1982
8	B.E. in Computer Science & Engineering	1984
9	B.E. in Electronics & Telecommunication Engineering	1992
10	B.E. in Information Science & Engineering	2000
11	B.E. in Biotechnology	2002
12	B.E. in Aerospace Engineering	2015

(b) Postgraduate Program

Sl. No.	Program	Year of Starting
1	Master of Computer Applications	1997
2	M.Tech in Product Design & Manufacturing	2004
3	M.Tech in Digital Communication	2004
4	M.Tech in Computer Science & Engineering	2004
5	M.Tech in Computer Integrated Manufacturing	2005
6	M.Tech in VLSI Design & Embedded Systems	2005
7	M.Tech in Computer Network Engineering	2005
8	M.Tech in Machine Design	2006
9	M.Tech in Communication Systems	2006
10	M.Tech in Power Electronics	2006
11	M.Tech in Bio-medical Signal Processing & Instrumentation	2006
12	M.Tech in Structural Engineering	2006
13	M.Tech in Software Engineering	2006
14	M.Tech in Information Technology	2007
15	M. Tech in Highway Technology	2009
16	M. Tech in Biotechnology	2011
17	M.Tech in Bioinformatics	2012
18	M.Tech in Chemical Engineering	2012
19	M.Tech. in RF & Microwave	2013

(c) *Diploma (UG & PG) and Certificate Courses /Proficiency courses*
The institution has a provision to start Diploma (UG and PG) programs under autonomous scheme. This will help in-house and external professionals and students to gain additional skills in the state of the Art Technology and Science.

Proficiency / Certificate courses are also being offered from time to time for both UG and PG students for upgrading their knowledge and skills. Such courses are open to outside participants also.

(d) *Research Centers*
The following departments offer M.Sc (Engg.) by research and Ph.D., recognized by VTU.

Sl. No.	Program	Year of Starting
1.	Mechanical Engineering	1999
2.	Chemical Engineering	2000
3.	Electronics & Communication Engineering	2004
4.	Industrial & Engineering Management	2004
5.	Electronics & Telecommunication Engineering	2004
6.	Computer Science & Engineering	2004
7.	Civil Engineering	2005
8.	Biotechnology	2008
9.	Chemistry	2008
10.	Information Science & Engineering	2011
11.	Master of Computer Applications	2011
12.	Physics	2011
13.	Electronics and Instrumentation Engineering	2011
14.	Mathematics	2011
15.	Electrical and Electronics Engineering	2012

2.0 ADMISSION PROCESS

2.1 Eligibility Rules for B.E Program

The basic qualification for eligibility for admission to B.E. programs is two year Pre-University or 12th Standard or equivalent examination (hereinafter referred to as the Qualifying Examination or Q.E). The candidate should have taken Physics and Mathematics as compulsory courses along with Chemistry / Biotechnology / Computer Science / Biology / Electronics as optional courses and English as one of the languages of study in the Q.E. Further, the candidate should have passed the Q.E with an aggregate minimum of 45% marks in the optional courses in the Q.E (40% of marks in Q.E in case of SC, ST & OBC Category candidates) for eligibility. The marks obtained by the candidate in Biotechnology / Computer Science / Biology / Electronics in the Q.E., will be considered in place of Chemistry, only for the purpose of determination of eligibility and not for the purpose of determination of rank, in respect of Engineering program.

2.1.1 Eligibility for Admission Under Government Quota

The SC/ST/OBC eligibility criteria is applicable to persons of Karnataka origin who are claiming eligibility for Government Seats under clauses (a), (b), (f), (H) (G), (K) and (0) and the same is not applicable to clauses (c), (d), (e), (g), (i) and (m) of item-7 of chapter-1. (Source: CET Brochure: 2016-17). For more details log on to the KEA website http://kea.kar.nic.in/cet

The institute may admit candidates belonging to Scheduled Castes, Scheduled tribes and any other groups as per the guidelines issued by Government of Karnataka/AICTE/VTU from time to time.

2.2 Lateral Admission of Students to BE Program

Students with Diploma qualification are admitted to B.E. Degree Programs in respective specializations to the second year, as per the guidelines issued by Government of Karnataka/AICTE/VTU from time to time.

The admissions are as per the GoK norms through KEA. http://kea.kar.nic.in/cet

2.3 Nomenclature of BE Program

Sl. No.	Program	Nomenclature
1	Biotechnology	BT
2	Chemical Engineering	CH
3	Computer Science & Engineering	CS
4	Civil Engineering	CV
5	Electronics & Communication Engineering	EC
6	Electrical & Electronics Engineering	EE
7	Industrial Engineering & Management	IM
8	Information Science & Engineering	IS
9	Electronics and Instrumentation Engineering	EI
10	Mechanical Engineering	ME
11	Electronics & Telecommunication Engineering	TE
12	Aerospace Engineering	AS

2.4 Program Duration

a)   The total duration of an academic program is: Four years for B.E. and Three years for the students who join B.E. under the lateral entry scheme.

b)   The duration of Diploma shall be one year with six months of internship. The certificate courses shall be of six months duration including project work.

c)   A student may qualify for the Diploma/Certificate award in a shorter time than that specified for the concerned program as in (b).

d)   The maximum period which a student can take to complete a full time academic Bachelor program in case of B.E. is **Eight (8)** years and **Six (6)** years in the case of lateral entry.

2.5 Transfer of Students (Program/College)

(a)   Program transfer will be granted as per AICTE / VTU norms. Applicant will be eligible for transfer only in the III Semester, provided he/she has successfully cleared all the courses of I and II Semesters. These transfers are purely on merit and subject to availability of vacant seats in programs to which transfer is sought for. **Such transfers can be given, provided the minimum strength in the parent program from which transfer is sought does not fall below 75% of intake. For example: If the approved intake is 60 in a program the college is permitted to provide transfer only if class strength is greater than 45 (forty five) at the time of counseling for transfer.**

(b)   The Institute may admit students from other Institutes / Universities to any semester. Such admissions will be according to the directions and guidelines issued by appropriate authorities VTU/AICTE / Govt. of Karnataka from time to time and will be governed by the transitory rules and regulations of the Institute.

(c) Only such candidates who have completed all the courses of equivalence shall be eligible for such transfers. In case a candidate is found to have short fall of equivalence credits he/she will have to audit such courses in addition to all the courses prescribed by the Academic Council for that program.

3.0 ACADEMIC PLANNING

3.1 Academic Planning for Engineering

- The curriculum is designed as per OBE and shall include General Engineering courses, Basic Science, Humanity & Social Sciences, Core Professional Engineering, Professional Electives and Global(Open) Electives and Project works.
- The percentage distribution / coverage of courses are as per the guidelines given by VTU / UGC / AICTE and Ministry of HRD, New Delhi.
- Individual Board of Studies **(BoS)** for each department takes care of formation of Scheme and Syllabus. The same is then, approved by the Academic Council (AC) of the Institution.
- There shall be an equal emphasis on theory, practical / laboratory and workshops.
- Emphasis is also given for Self-study and experiential learning.
- Additions and deletions of any particular course have to be recommended by respective BoS and approved by the Academic Council of the Institution.
- Exclusive major project and minor projects are also included in the curricula.
- Many interdisciplinary courses and open or global electives are also offered and a student can choose from these as per his/her interest.
- All students have to undergo **Continuous Internal Evaluation (CIE) which** includes tests, quizzes, experiential learning, assignments and seminars.
- At the end of the semester eligible students have to take Semester End Examination (SEE) for both theory and practical.
- Student declared as Not Satisfied Attendance Requirements (NSAR) or Not Satisfied Sessional Requirements (NSSR) is not eligible to take up Semester End Examination (SEE) in that particular Course including laboratory if any.

3.1.1   Calendar of Events

College Timings: Monday to   Friday: 9.00 AM to 4.45 PM
Saturday: 9.00 AM to 1.30 PM

If special / remedial classes are arranged by the departments students will have to mandatorily stay beyond working hours/ time table including Saturdays. These classes will be counted for attendance.

Induction Program: The All India Council of Technical Education (AICTE) in its recent guidelines has made it mandatory to conduct 3 weeks induction program for first year students of 2018 admission students. Following the guidelines, at RVCE we have proposed to have THREE weeks of program in FIRST semester and ONE week of program in SECOND semester.
The main concern and responsibility of institutions imparting higher education is to develop manpower of well-trained engineers with sensitized concern towards oneself, one's family, society and nation at large. Students, who enter the professional course, need to acclimatize to the new environment, set a healthy daily routine, create a bonding between the teacher and a student, develop awareness, sensitivity and understanding of the self, society at large and inculcate in them the ethics of the institution with a sense of larger purpose. The graduating student should have knowledge and skills in the area of his

study. Character needs to be nurtured as an essential quality by which he/she would understand and fulfill his/her responsibility as an engineer, a citizen and a human being.

The idea of introducing induction program in the curriculum is to equip the students with communication skills, and get them acquainted with the culture of institution and human values. A student has to undergo this induction program after joining the institute and before the commencement of classes.

3.2 *Activity Points for Award of Degree*

Preamble

Apart from technical knowledge and skills, to be successful as professional, students should have excellent soft skills, leadership qualities and team spirit. They should have entrepreneurial capabilities and societal commitment. In order to match these multifarious requirement, AICTE has created a unique mechanism of awarding Activity points over and above the academic grades.

Activity point requirement

Sl. No.	Student category	Activity points prescribed by AICTE
1	Day college regular student admitted to the 4 years Degree program	100
2	Student entering 4 years degree program through lateral entry	75
3	Students transferred from other Universities to fifth semester	50

- Duration of the program: anytime during the semester weekends and holidays, as per the interest and convenience of the student from the year of entry to the program. However, minimum hours specified must be satisfied;
- Activity Points (non-credit) have no effect on SGPA/CGPA and shall not be considered for vertical progression;
- The Activity Points earned shall be reflected on the students eighth semester Grade card;
- In case students fail to earn the prescribed activity points, Eighth semester Grade Card shall be issued only after earning the required activity points. Students shall be admitted for the award of degree only after the release of the Eighth semester Grade card.
- The consolidated report of activity points earned by the students will be sent to the University. A notification in this respect will be issued by Registrar (Evaluation), VTU, Belagavi.

Following suggestive activities may be carried out by students in teams as per their choice:

Sl. No.	Activity Head	Minimum duration		Performance appraisal/ Maximum points/activity
		Weeks	Hours	
01.	Helping local schools to achieve good result and enhance their enrolment in Higher/technical/ vocational education.	2	80-90	20
02.	Preparing an actionable business proposal for enhancing the village income.	2	80-90	20
03.	Developing Sustainable Water management system.	2	80-90	20
04.	Tourism promotion through innovative approaches.	2	80-90	20
05.	Promotion of appropriate technologies.	2	80-90	20
06.	Reduction in energy consumption.	2	80-90	20
07.	To skill rural population.	2	80-90	20
08.	Facilitating 100% digitized money transactions.	2	80-90	20
09.	Setting of the information imparting club for women leading to contribution in social and economic issues.	2	80-90	20
10.	Developing and managing efficient garbage disposable system.	2	80-90	20
11.	To assist the marketing of rural produce.	2	80-90	20
12.	Food preservation/ packaging.	2	80-90	20
13.	Automation of local activities.	2	80-90	20
14.	Spreading public awareness under rural outreach program.	2	80-90	20
15.	Contribution to any national level initiative of Government of India. For eg. Digital India, Skill India, Swachh Bharat Intership etc.	2	80-90	20

Evaluated by NSS/youth Red cross Co-ordinators/Chair person-CICC(College Internal complaints committee)/SAGY(Sansad Adarsh Gram yojana, Govt. of India) of the institute/ Mentor.

3.3 SEMESTER REGISTRATION/DROPPING/WITHDRAWAL

(a) **Every student has to register in person** at the beginning of every semester as per the notification issued by the institution from time to time. **Such of the students who do not register within one week from the date of commencement of the semester, shall not be eligible to take up that particular semester. Parents are advised to note.**

(b) In case of any delay to register due to any exigency, the **parent and student should intimate the Principal/Head of the department, RVCE, in advance, indicating the reason for delay** in registering. However, for such students also, **the attendance requirement shall be calculated from the date of commencement of the semester** and not from the date of joining.

(c) A student may be barred from registering for a semester for specific reasons for not registering, non-payment of fees, not eligible for the current semester due to lack of clearing enough credits etc.

(d) **Dropping of Courses**: A student can drop a course under the guidance of the counselor if the counselor and parent feel that the student cannot cope up with all the courses. This dropping of course shall be intimated to the **Dean (Academics)** through the HoD, before the dropping date as announced in the calendar of events. However, the total credits should not fall short of 16 (sixteen) credits which are the minimum number of credits to be registered per semester. The dropped

courses are not recorded in the Grade Card.

Note:

1. If a candidate drops a course, then that particular course has to be taken up only in regular semester but not in fast-track.
2. **This facility is not applicable for first year students.**

(e) **Withdrawal from Courses**: A student may opt to withdraw from a course on or before the date specified in the calendar of events. Such student who wants to utilize this facility has to submit an application through the HoD to Dean (Academics), in consultation with counselor, parent and HoD of the respective department. The candidate should have fulfilled the attendance criteria (for the course/s that he / she want to withdraw). The withdrawn course(s) are recorded in the Grade Card as 'W' grade. However, such withdrawals will be permitted without prejudice to the minimum number of credits as specified in (d).

This facility is not applicable for first year students.

3.4 Attendance Requirement

a) Each semester is considered as a unit and the candidate has to put in a minimum attendance of 85% in each course with a provision for condonation of 10% of the attendance by the Principal, RVCE for reasons such as (i) serious medical condition or (ii) representing the Institute / University /State /Nation in sports, cultural, technical or academic activity with the permission of the Principal duly endorsed by Dean Student Affairs and Dean Academics. Even in such cases, a minimum of 75% attendance is absolutely mandatory. Documents have to be submitted and prior permission must be obtained from the Principal before attending the event. The students who do not satisfy this condition will be declared as **NSAR (Not Satisfied Attendance Requirement)**.

b) The basis for the calculation of the attendance shall be the period prescribed by the Institution through its calendar of events. For late admission / transfer of students from other institutes/universities the **date of admission to First year BE** would be considered for the calculation of attendance (this rule does not apply to higher semesters).

c) The students will be informed about the attendance position periodically by the college notifying the status before each CIE and during the multiple counseling sessions. **Student declared as NSAR is not eligible to take up SEE in that particular course.**

d) If a student does not fulfill the attendance requirements in any course, he/she is not permitted to attend the Semester End Examination in that particular course.

e) *Temporary Break of Study from the Program*

1) A candidate is normally not permitted to break the study. However, if a candidate intends to temporarily discontinue the program in the middle for valid reasons (such as accident or hospitalization due to prolonged ill health, grave calamity in the family or any other serious happenings) and wants to rejoin the program later in respective semester, he / she shall apply to the Principal, RVCE well in advance. Such application shall be submitted within at least 6 weeks of the commencement of the semester or from the date he/she has not attended the classes, whichever is later, stating fully the reason for such a withdrawal, together with

supporting documents and endorsement of his/her parents/guardians through the Head of the

Department stating.

2) The institute shall examine such an application and if it finds the case to be genuine, it may permit the student to temporarily withdraw from the program. Such permission is accorded only to those (a) who have the possibility to complete the prescribed program requirements within the time limits specified by the university. (b) Who do not have any outstanding dues / demand at the college / University level including tuition fees, any other fees library materials etc.

3) The candidate has to rejoin the semester after the break from the commencement of the respective semester as and when it is offered.

4) **The total period for completion of the program is reckoned from the commencement of the semester to which the candidate was first admitted and shall not exceed the maximum period as specified in 2.4(d). The maximum period includes the break period.**

5) If any candidate is detained for any reason, the period of detention shall not be considered as 'Break of Study'.

6) A student availing of temporary withdrawal under the above provision shall be required to pay such fees and/or charges as may be fixed by the college until such time as his/her name appears on the Students' Roll list. However, it may be noted that the fees/charges once paid shall not be refunded.

7) Normally, a student will be entitled to avail of the temporary withdrawal facility only once during his/her studentship of the program. However, any other concession for the student shall have to be approved by the Academic Council of the College. Hence, the student shall take the advice of the Principal to use the above provision only in exceptional cases.

3.5 *Termination From The Program*

A student shall be required to withdraw from the program and leave the Autonomous College on the following grounds.

- Failure (Getting F Grade) and not passing to earn credits for the same course, in spite of five attempts.
- Absence from classes for more than six weeks at a time in a semester without leave of absence being granted by the competent Authority.
- Failure to meet the standards of discipline as prescribed by the college from time to time.

3.6 *Semester Scheme*

Each academic year is divided into two main semesters and one fast track semester with their calendar, duration and academic activities fixed in advance by the College, as approved by the AC.

a) The plan for implementing the Semester Scheme in the College is given in the Table 3.4:

Table 3.4 Breakup of Academic Year into Semesters.

No. of semesters	There are two main semesters and one Fast track semester: **NOTE:** Fast track semester is provided to assist failed students. The student has to pay a special fee prescribed by the college to register for a course in the Fast track semester. The Fast track semester is provided to help the student in not losing an academic year. It is optional for a student to make use of Fast track semester. Fast track semester is a special semester and the student cannot demand it as a matter of right. Fast track semester is also used for offering add-on courses and Proficiency Courses. Fast track students cannot be offered these add-on courses as these could be full time courses. Students can also take up summer internship/ Practical training / Industrial Training on the recommendation of respective Heads of the Departments.
Semester Duration	Main Semester is of 19 Weeks each and Fast Track Semester is of 8 Weeks
Academic Activities (Break up in weeks)	**Regular Semester:** Registration for course- Three days Course work - Sixteen weeks from the starting date of registration Examinations- Two weeks Declaration of Results- One week **TOTAL: 19 Weeks each.** **Fast Track Semester (only for students with NSSR/ NSAR/ F/ W grades):** Registration of courses- Three days Course work – Six weeks from the date of starting of registration Examination- 9 days Declaration of Results: 3 days **TOTAL: Eight weeks.**
Inter-Semester Recess	**For Students not appearing for Fast Track:** After odd semester two weeks and after even semester ten weeks. **Students are advised to take up internship or proficiency courses as and when offered, during this period to improve their employability.**
Examinations	Continuous Internal Evaluation (CIE) and Semester End Examination (SEE), both will have equal weightage in the student's performance evaluation in Course Work / Laboratory Work and other activities. (**NOTE**: The CIE tests would be conducted throughout a semester on dates announced in advance as per the calendar of events and its results made known to the students from time to time. This will help the students to decide on Dropping of courses or Withdrawal from courses in consultation with their counselor.)
Academic Calendar	The calendar of events for each academic year will be announced for odd semester, even semester and subsequent Fast track before the beginning of each academic year. A typical academic year runs from August to July.

3.7 Credit System

The **Choice Based Credit System** (CBCS) is followed for all the U.G Programs of the college. In the credit system, the course work of students is unitized and one credit is assigned to each unit, after a student completes the teaching learning process as prescribed for that unit and is successful in its assessment. One unit of course work and its corresponding one credit is referred to a main semester (odd/even) and shall be equal to

a. Theory courses, conducted for 1 hour/week during a semester shall be considered for earning one credit.

b. Laboratory courses or tutorials, conducted for 2 hours/week during a semester shall be considered as one credit.

Note:
1. The above figure shall be multiplied by a factor of 2 in the case of Fast Track Semester.
2. In addition, non-credit theory, practical training, study tours, guest lectures that do not carry any credits may be prescribed in the curriculum, but are **mandatory. For the award of vertical progression and degree these will be considered as any other credit courses.**

3.8 *Credits Requirement for Be Program*

The total number of credits required to be earned by students to qualify for the various Degree/Certificate programs are given in the **Table 3.6.**

Table 3.5 Total number of credits required to be earned by students

Program	Normal Duration Years (semesters)	Total No. of credits to be Earned (Average/Semester = 22)
UG Degree B.E.	4.0 (8)	175
UG Degree B.E. (Lateral Entry, Students with Diploma)	3.0 (6)	135
Certificate Course	1(2)	50

Table 3.6 Credit distribution for UG Program

Sl. No.	Category	Percentage (%)	nimum No. of credits
1.	Humanities	5-10	10
2.	Basic Science	15-20	30
3.	Engineering Science	15-20	30
4.	Professional Core Courses(PC)	30-40	60
5.	Professional Elective Courses	10-15	20
6.	Other Electives	5-10	10
7.	Project Work	10-15	20

4.0 EVALUATION SYSTEM

4.1 Achievement Testing

a) Achievement testing will be done in two parts, as follows, both of them being important
In assessing the student achievement:

I. Sessional, involving **Continuous Internal Evaluation (CIE),** will be conducted by the course teacher all through the semester. The evaluation process has three parts, executed by way of quizzes (Q), tests (T) and Assignment. The evaluation of assignment could be descriptive / analytical type assessment spread throughout the semester, weekly/fortnightly, assignments, problem solving, group discussions and seminars depending on the course. CIE could also be evaluated by experiential learning, collaborative learning, project based learning, problem based learning, web based learning, game based learning, compute-support collaborative learning, mobile assisted learning, seamless puzzle based learning. The tests have to be written in the official booklets. It is the student's responsibility to see and confirm the evaluation and marks obtained after each test. After ascertaining that he/she has obtained the marks as per the performance, the student shall sign in the blue book after each test.

II. Terminal Examination designated as **Semester End Examination (SEE)** will be conducted jointly with an external examiners. This will include a written examination for theory courses and practical/design examination including viva-voce for laboratory / design courses. Controller of Examinations (CoE) in coordination with Dean Academics, and Board of Examiners implements the SEE process.
Semester End Examination (SEE): Total marks: 100+50=150 Theory – 100 Marks
SEE for 100 marks is awarded by means of an examination. The Question paper for each course contains two parts, Part – A and Part – B. Part – A consists of objective type questions for 20 marks covering the complete syllabus. Part – B consists of five main questions, one from each unit for 16 marks adding up to 80 marks. Each main question may have sub questions. The question from Units I, IV and V have no internal choice. Units II and III have internal choice in which both questions cover entire unit having same complexity in terms of course outcomes and Bloom's taxonomy level.

Laboratory- 50 Marks
Experiment Conduction with proper results is evaluated for 40 marks and Viva is for 10 marks. Total SEE for laboratory is 50 marks.

b) In the credit system, both CIE and SEE will have equal (50:50) weightage. A student's performance in a course is judged by taking into account the performance in both CIE and SEE.

c) The marks obtained by the student in CIE will be displayed in the respective departments and the students are expected to affix their signatures during a prescribed period as a confirmation of their verification of the marks.

d) An average course load of 22 credits per semester with its **minimum and maximum limits being fixed at 16 and 28 credits** respectively will be followed as per the recommendation of BoS and Academic Council.

e) The number of credits is clearly defined in the scheme of study. All the students of B.E. are required to compulsorily register for all the courses prescribed for regular semester.

f) Faculty Advisors / Counselors will monitor the student's CIE performance; take further steps to advice the student accordingly. As a follow up of this, each student will be advised to continue with the average load, drop courses or withdraw from them **as indicated in 3.2 (d) and 3.2 (e).**

g) This would also help in planning the course load of students between the minimum of 16 and maximum of 28 credit limits in the successive semesters based on faculty advice and on their performance in CIE and SEE in the preceding semester and of CIE in the current semester.

h) Students who wish to accelerate the rate of accumulation of credits by registering up-to the maximum of 28 credits course load and continuing with them in the ensuing regular semesters based on counselors advice and Dean Academics and performance in CIE and SEE in the preceding semester. This shall be notified by the Dean Academics from time to time. This facility will not be available for the first and second semester students.

4.2 Internal Assessment

4.2.1 Scheme of Continuous Internal Evaluation for theory courses

CIE is executed by way of quizzes (Q), tests (T) and Self-Study(S). A minimum of three quizzes are conducted and each quiz is evaluated for 10 marks adding up to 30 marks. All quizzes are conducted online. The number of quizzes may be more than three also. The three tests are conducted for 50 marks each and the sum of the marks scored from three tests is reduced to 50. The marks component for self-study/assignment is 20. The total CIE for theory is 100.

4.2.2 Scheme of Continuous Internal Evaluation for courses with laboratory Continuous Internal Evaluation (CIE): Total marks: 100+50=150.

Theory – 100 Marks

CIE is executed by way of quizzes (Q), tests (T) and experiential learning (EL). A minimum of three quizzes are conducted and each quiz is evaluated for 10 marks adding up to 30 marks. All quizzes are conducted online. The number of quizzes may be more than three also. The three tests are conducted for 50 marks each and the sum of the marks scored from three tests is reduced to 50. The marks component for experiential learning is 20.

Laboratory- 50 Marks

The Laboratory session is held every week as per the time table and the performance of the student is evaluated in every session. The average of marks over number of weeks is considered for 30 marks. At the end of the semester a test is conducted for 10 marks. The students are encouraged to implement additional innovative experiments in the lab and are rewarded for 10 marks. Total marks for the laboratory is 50.

4.3 Grading System

Absolute Grading system on 10 point scale is followed in the evaluation of student's performance in a course.

a) **Letter Grades:** Letter grade is basically a qualitative measure (an alphabet/letter) giving the performance of a student, such as, **Outstanding** (**S**), **Excellent (A)**, **Very Good (B)**, **Good (C)**, **Above Average (D)**, **Average (E)** and **Fail (F)**, based on the score. This is arrived at after the student's performance in a course, which includes **both CIE and SEE**.

b) The range of marks for each letter grade shall be as given in the following Table 4.3

Table 4.3 Grading System

Level	Out standing	Excellent	Very Good	Good	Above Average	Average	Fail
Score (Marks) Range %	> = 90	> = 80 <90	> = 70 <80	> = 60 <70	> = 50 <60	> = 40 <50	<40
Grade	S	A	B	C	D	E	F

Grade Points	10	9	8	7	6	4	0

c) **Grade Points:** Depending on the letter grades assigned, a student earns certain grade points. In the 10 point grading system, that is followed, the grade points earned for different letter grades are given in **Table 4.3**.

d) Grade point averages SGPA and CGPA: The grade points earned for each course are used further for calculating semester grade point average (SGPA) and the cumulative grade point average (CGPA), both of which being important performance indices of the student.

  (i) **SGPA** (Semester Grade Point Average) is the performance index of a student in a semester and is calculated as follows. :

$$SGPA = \frac{[\sum (\text{Course Credits}) \times (\text{Grade Point/s})] \text{ for all the course registered by the student, excluding transitional grades, in that semester.}}{[\sum (\text{Course Credits}) \text{ for all the courses registered by the student excluding transitional grades, in that semester.}]}$$

  (ii) **CGPA** (Cumulative Grade Point Average) is the performance index of a student of all the previous semesters and is calculated as follows:

$$CGPA = \frac{[\sum (\text{Course Credits}) \times (\text{Grade Point/s})] \text{ for all the courses registered by the student excluding F \& Transitional grades until that semester.}}{[\sum (\text{Course Credits})] \text{ for all the courses registered by the student excluding those with F \& Transitional grades until that semester.}}$$

The SGPA and CGPA respectively facilitate the declaration of academic performance of a student at the end of the semester and the end of successive semesters).

a) **Transitional Grades:** The transitional grades, such as 'I', 'W' and 'X' shall be awarded to a student in the following cases. These shall be converted into one or the other of the letter grades (**S-F**) after student completes his/ her course requirements, including examinations;

Grade 'I': Awarded to a student having satisfactory attendance at classes and meeting the passing standard at CIE in a course, but remained absent from SEE for valid and convincing reasons acceptable to the college, like

(i) Severe illness or accidents, which disable him/her from attending SEE.

(ii) A calamity in the family at the time of SEE, which required the student to be away from the college. The candidate or the parents should inform the incident to the Chief Superintendent of Examination

before the commencement of particular examination. The documents related to the incident shall be submitted to the Controller of Examinations with in a week's time from the date of that particular examination or last day of that particular even/ odd semester examination, whichever is earlier.

(iii) Any other exigency which the Grading Advisory Committee thinks requires a consideration, like a student representing the institution / state / university / nation in university/state/national/international level events / competition. In such case, the student is required to take prior permission from Head of the institution with relevant documents. The student should also submit the proof of having attended the event / competition immediately after returning, without which the transitional grade will not be considered. IF the student does not submit the relevant documents that supports claim of the candidate to abstain from the examination if not submitted within the prescribed period, such applications are liable to rejected for I grade.

The grading advisory committee's decision regarding the awarding the I grade is final.

Grade 'W': Awarded to a student having satisfactory attendance at classes, but withdrawing from that course before the prescribed date in a semester under faculty advice.

Grade 'X': Awarded to a student having attendance (>=85%) and CIE rating (>=90%) in a course, but SEE performance observed to be 'F', which could result in an overall F grade in the course.

b) **Earning Credit :** A Student would be considered to have completed a course successfully and earned the credits, if he/she secures a letter grade other than NSAR,NSSR,NE I, W, X or F in that course. Grade F in any course implies failure in that course.

4.4 Passing Standards

a)   The Standard of passing in each course is given in the following Table 4.4

Table 4.4 Passing standards

Passing Standard for Theory Course	CIE >= 40% and SEE >= 40%
Passing Standard for Laboratory/ Project work	CIE >= 40% and SEE >= 40%
Passing Standard for courses having both Theory and laboratory components	CIE : Theory >= 35%, Lab >= 35 % and aggregate of Theory and Lab >= 40% SEE : Theory >= 35%, Lab >= 35% and aggregate of Theory and Lab >= 40%

b) Successive Failures

If a student fails (Grade F / Absent) to pass a course and earn the required credits prescribed for the course even after five(5) attempts, the admission of the student to the program will be terminated and the student will be informed to leave the program of study. However, such a student may seek readmission to the program at the institution as a fresh candidate to the first year.

c) A regular student admitted to B.E. program shall complete the course within eight academic years, from the year of admission. A student who is admitted directly to third semester under lateral entry scheme shall complete all the courses with in a period of six academic years from the date of first admission in to the B.E Program, failing which he / she has to discontinue the course.

NOT FIT FOR TECHNICAL EDUCATION:

A student who has not been able to obtain eligibility for third semester even after three academic years will be declared 'Not Fit for Technical Education' (NFTE). However, such a student can rejoin B.E. in the college as a fresh student to the first year…………………..

c) **Fast Track Semester:** The Fast Track semester is provided to facilitate or as a recourse to such students who have absented themselves from attending CIE or SEE without valid reasons;

<p align="center">OR</p>

Who have been unsuccessful (Grade F) in attaining the minimum passing standards prescribed for SEE;

<p align="center">OR</p>

Who have been detained for want of Sessional marks (CIE < 40%) and declared NSSR;

<p align="center">OR</p>

Who have been detained for want of attendance (NSAR)

<p align="center">OR</p>

Who have withdrawn (Grade W) from a course.

- Such students shall be required to re-register for the course(s) and go through CIE and SEE again and obtain a grade equal to or better than E in each case. The re-registration shall be possible when the particular course is offered again either in a Fast Track Semester (for regular students) or Main (odd/even) semester (for year back students).
- Course load will be specified for Fast Track Semester, for smooth operation of the program. For this purpose, a committee consisting of Dean (Academics), HoD and counselors is formed and the students are expected to contact them for any assistance and clarification.
- A student can register for a maximum of four courses in the fast track semester. The registered course can be **laboratory and theory courses** and the total credits put together should not exceed 16.

All the students must mandatorily register for Fast track semester and compulsorily attend all the Fast track classes, for all the courses registered and re-earn the CIE.

Students, who have applied for Revaluation or Makeup, can also register for Fast track; however, if they clear the courses in revaluation or makeup, the registration amount will be refunded.

d) Make-Up Examination:

Make-up examination facility is available to those students who have missed SEE in one or more course in a semester and has been declared as' I' grade. Students having **'X'** grade shall also be eligible to take advantage of this facility. The make-up examination would be held as per dates notified by the

Controller of Examinations normally immediately 10 days after the announcement of the results. In all

these cases, the standard of the Make-up Examination shall be the same as that of the regular SEE for the Courses. There shall be no Make-Up examination for Fast track semester.

In case where the student fails to take make-up examination the actual grade obtained in the regular examination will be considered as the final grade in the course (i.e 'F' grade in case of 'X' grade and 'Ab' in case of 'I' grade).

4.5 Schedule of Examinations

The Controller of Examinations will announce the Time Table for the SEE, Makeup and Fast Track. Various examinations in an academic year conducted in the order are:

1. SEE at the end of odd semester
2. Make-up examination after odd semester to students as per 4.4(d)
3. SEE at the end of even semester
4. Make-up examination after even semester to students as per 4.4(d)
5. Fast Track Semester at the end of even semester SEE.

4.6 Vertical Progression (Promotion to Next Academic Year)

(a) A student has to obtain a **CGPA of >=5.0** and should not have more than **Four 'F' grades** (Backlog courses as not passed including Absent, NSSR, NSAR, W and Drop); at the end of each academic year for promotion to the next higher academic year.

Such students who do not satisfy this minimum requirement in an academic year shall improve by registering for the courses in which they have failed (Grade F) / Declared NSAR /Declared NSSR / withdrawn (Grade W) during Fast Track semester under the guidance of Dean (Academics) of the institution.

(b) If a student fails to satisfy the minimum requirements, stated in 4.6(a), even after the Fast Track examinations, he/she cannot register for the next higher academic year. However, such students can register for the failed courses to a **maximum of 4 courses but not exceeding 16 credits in each** (odd semester courses during the regular odd semester and even semester courses during the regular even semester or during the Fast Track semester, if offered) to satisfy the minimum requirement for promotion to the next higher academic year. All minimum requirements specified for regular semester is applicable for fast track semester also.

(c) A student failing to obtain **CGPA of >=5.0**, in spite of obtaining **E** grades and better than **E** grades, can register for course(s) by rejecting the results in which he /she has obtained E grade(s), when offered during a Fast Track Semester to satisfy the minimum CGPA requirement of >=5.0 and become eligible for the promotion to the next ODD semester. However, failure to secure a minimum CGPA of 5.0 but not less than 4.5 at the end of any academic year **for the first time**, shall attract a warning before approval of the student to continue in the next higher academic year. This facility is available to the student only once during the entire duration of B.E. program.

(d) Odd semester to even semester mobility does not depend upon the preceding odd semester examination results.

(e) If CGPA of a student is less than 5.00 at the end of the B.E. program, students are permitted to appear again for SEE in full or part of the corresponding previous semester theory course/s by rejecting the performance of them (other than internship, technical seminar, project work, and laboratories) for any number of times subject to the provision of the maximum duration of the program, to make the CGPA >=5.0 for the award of the degree.

(f) First and Second year Audit courses should also be completed before seeking eligibility to 7th semester.

4.7 Revaluation / Photocopy

The Controller of Examinations (CoE) will announce the schedule for revaluation / photocopy after the announcement of SEE results. **It will be the responsibility of the student to see the Notice Boards and act accordingly, failing which the student will not be eligible to avail this facility.**

The students can apply for revaluation and issue of photo copy of answer scripts after the announcement of results of the two main semesters. In the case of SEE of Fast Track Semester and make-up examinations, only challenge revaluation can be applied (no provision for photocopy and revaluation). There is no challenge revaluation in case of two main semesters.

4.8 Malpractice

A student who is booked under malpractice will be prevented from writing that particular examination from the instant he/she is booked for malpractice (**Possession of manuscripts/printed material related or not related to the concerned course of exam; Possession and /or use of mobile phones or any other electronic gadgets, revealing identity in the answer scripts, destroying evidence of malpractice, impersonation, misbehavior, misconduct or any other malpractice related to examination**). The candidate shall be required to appear before the malpractice investigating committee. The day, date and time will be specified by the Chief Superintendent / Controller of Examination. If found guilty, depending on the severity of the case, the committee will impose an appropriate punishment as per the Examination Regulations and Guidelines. In such cases, the said course will be awarded with a credit of **'0'**(Zero) with the grade 'NE' for the calculation of SGPA.

4.9 Rejection of Results

A student is permitted to reject the results of an entire semester (including CIE) only once during the program duration. The candidate, who desires to reject the performance, shall reject performance in all the courses of the semester, irrespective of whether he/she has passed or failed in the courses. Such a candidate is allowed to take re-admission for the relevant semester. Such a student will have to represent to the Principal in writing with the concurrence of the parent. Rejection of the result is not permitted to the students who have grade 'NE' in the respective semester until the compliance of penalty and punishment is cleared.

4.10 Grade Cards

Each student will be issued a grade card at the end of odd and even semester as well as fast track examinations. This will have a list of all the courses registered by the student for the examination together with their credits, the letter grades and grade points awarded. Only those courses registered for credit and having grade points shall be included in the computation of the student's performance like SGPA and CGPA and the audit courses will not form part of this computation. The result of mandatory courses, which are of the noncredit type, will also be reflected in the grade card with appropriate letter grades. It may be noted that each student shall have to obtain at least **grade** E **or higher** (pass grade) **in each mandatory course to qualify for the award of degree by the university**.

4.11 Percentage Equivalence of Grade Points (On 10 Point Scale)

The Equivalence of CGPA with the percentage of marks to be considered for equivalence in the conventional system for students coming from VTU colleges to autonomous colleges is as follows: Conversion of CGPA into equivalent **% of Marks = [(CGPA) -0.75] x 10**

Award of Class: Using the above formula the grade point to percentage of Marks is given in the Table-4.11

Table 4.11: Percentage Equivalence of Grade Points (For a 10 – Point Scale)

Grade Point	Percentage of Marks / Class
5.75	50
6.25	55
6.75	60
7.25	65
7.75	70
8.25	75

4.12 Graduation Ceremony

(A) The college will have its own annual Graduation ceremony for the award of Provisional Degrees to students completing the prescribed academic requirements in each program of study, in consultation with the University, as per the provisions in the Statutes.

(B) Prizes, Medals and Ranks to the meritorious graduating students will also be issued during the graduation ceremony.

(C) *Award of Class at Degree Level:*

The Bachelor Degree in Engineering shall be awarded to the candidates who have passed all the stipulated courses including mandatory audit courses from 1st to 8th semesters. In case of lateral entry, candidates should have completed all the courses including mandatory courses from 3rd to 8th semesters. Declaration of the class for the degree shall be based on the performance of the candidate from 3rd to 8th for Lateral entry B.E. Candidates and from 1st to 8th Semester taken together for B.E students.

  i. A candidate will be declared to have obtained First Class with Distinction if the student has passed in all courses in one /multiple sittings and secured not less than 7.75 CGPA.

  ii. A candidate who has passed in all the courses of 1st / 3rd to 8th semesters in one / multiple sittings securing not less than 6.75 but less than 7.75 CGPA shall be declared to be eligible for the award of B.E. Degree in First Class.

  iii. A Candidate who has passed in all the courses of 1st / 3rd to 8th semesters securing not less than 5.75 but less than 6.75 CGPA shall be declared to be eligible for the award of BE degree in Second Class.

  iv. A Candidate who has passed in all the courses of 1st / 3rd to 8th semesters securing less than 5.75 and not less than 5 CGPA shall be declared to be eligible for the award of BE degree in Pass class.

Note: From II year onwards, the number of maximum credits that a student can register in a semester shall be 28. In any case, the number of credits shall not be less than 16 after dropping /withdrawal of a course/(s) in that semester

(D) *Award of Ranks*

a. Rank shall be awarded to a maximum of 10% of the approved student intake. However, the maximum number of ranks awarded shall not exceed 10 and not less than 5 in each program.

b. Student appearing for Makeup /Fast track and any subsequent examinations in any credit or audit course/courses during the program shall not be eligible for the award of ranks.

c. Only students who complete the program in four consecutive years for B.E (regular students), three consecutive years for B.E (lateral entry diploma students) are eligible for consideration for the award of ranks.

d. For the award of rank for B.E students, CGPA shall be calculated from 1st to 8th semester and in the case of lateral entry diploma students CGPA shall be calculated from 3rd to 8th semester.

f. The basis for declaring the rank shall be the CGPA (without gracing) in the descending order of merit from the highest CGPA.

g. CGPA shall be calculated to the second decimal position.

h. Students with CGPA of >=6.75(Equivalent to First Class) or above are eligible for consideration for rank.

i. If two students get the same CGPA, the tie shall be resolved by considering the number of times a student has obtained higher SGPA, if it is not resolved even at this stage, the number of times student has obtained higher grades sequentially from S to E till the tie is resolved. If the tie is still unresolved, the students with similar CGPA will be awarded the same rank.

5.0 VALUE ADDED COURSES & SERVICES

The institution will conduct proficiency courses from time to time depending on industry and skill requirements. A schedule of such courses shall be announced well in advance. Such courses shall be mandatory or otherwise depending on the importance of such courses. Separate certificates shall be awarded for such courses.

5.1 Finishing School

a.   A student after getting placed may be required to undergo special training as prescribed by the employers as per the calendar of events that shall be announced from time to time.

b.   A student who is not placed but wants to enhance his skills for employability can also opt for finishing school.

c.   The curricula, fees (if any) and the courses of finishing school shall be announced by the Department of Placement and Training from time to time.

5.2 Professional Societies

Every student is advised to become a member of at least one of the Professional Societies which are active in the institution. They are required to actively participate in the Professional Society activities which will enhance their overall skills, organizational capabilities and leadership qualities apart from opportunity to network with experts from industries and R&D organizations.

1.   IEEE Student Branch with three societies
   - IEEE Communication Society
   - IEEE Power & Energy Society
   - IEEE Computer Society
2.   International Society of Automation (ISA)
3.   Computer Society of India (CSI)
4.   Information Systems Audit and Control Association (ISACA)
5.   Indian Institute of Chemical Engineers
6.   Indian Concrete Institute (ICI)
7.   American Society for Civil Engineers (ASCE)
8.   Indian Institution of Industrial Engineers
9.   Fluid Power Society of India (FPSI)
10.   Indian Society for Heating, Refrigeration and Air Conditioning Engineers(ISHRAE)
11.   Indian Society for Technical Education (ISTE)

5.3 Scholarship Facility

Scholarships are available to students on merit cum means basis from the following Organizations

Table 5.3 Scholarship facility

SL No.	Category	Name of Scholarship
1	SC/ST	SC/ST Scholarship
2	SC/ST	SC/ST Fee Concession (free Ship)
3	Low income	KEA 2010 Subsidy
4	Low income	MHRD (PU Board) (DBT)
5	OBC	Jharkhand State Tribal Co-op Development Corp
6	OBC	BCM (OBC) Scholarship

7	OBC	Bihar/ Samastipur OBC Scholarship
8	Minority	Karnataka Minorities Development Corp., Loan
9	Minority	K K Education /Alhaj Attar/ Mamoor Welfare Trust
10	Corporate	Intel Foundation
11	Corporate	M/s Meritor CVS India (p) Ltd., (To Mech. Dept.,)
12	Corporate	Cognizant Foundation (placement)
13	Corporate	Sitaram Jindal Scholarship
14	Corporate	NTT Data Inc Scholarship America
15	Corporate	ABB Scholarship (Means cum overall merit)
16	Corporate	Schneider Electricals
17	Government	Dept of Sainik Welfare For Ex Service Children
18	Government	BBMP Mahanagara Palike/ Town/City Municipal
19	NGO	M/s Raghuvendra Singh
20	Government	Merit Scholarship DTE Assam Gauwhati
21	Government	N H F D C Faridabad
22	Government	Merit Scholarship DTE Karnataka
23	Government	Merit-Cum-Means (DBT)
24	Alumni	Alumni Association RVCE
25	Government	Karnataka Employees Welfare Association
26	Government	Nalanda /Samastipur Jilla Kalyan
27	Alumni	Alumni 1979 batch of E&C
28	NGO	Arunodaya scholarship for TE & ECE students (Means)
29	NGO	Sarthaka Trust

5.4 Library & Information Centre

5.4.1 Networking & Digital Library Services

Library is a consortia member of VTU through which college has access to IEEE IEL-Online Database, ASCE e-Journals, ASME e-Journals, Taylor & Francis e-Journals, ProQuest e-journals (Engineering, management and Architecture), Knimbus Digital Library and Remote Access Solution, Kopykitab Virtual-Library, NetAnalytiks Sentential (Grammar/writing tool). Institutional Subscription - Karvin Skill Soft E - Books, E-Books of Cambridge University Press, Gartner Research Database. These resources can be accessed from Library and within the campus through any internet browser https://rvce.edu.in/library, library is also member of DELNET and is also making use of inter library loan facility provided by the DELNET, for borrowing non availability of books, manuscripts and journal papers in the library.

Web OPAC: The availability of books in main library can be access through any internet browser with the link provided http://112.133.207.137/opac.

Online access

IP enabled online access facilities for e-books and journals have been provided for students and faculties throughout the campus.

5.4.2 Central Library

Number of titles: 47837
Number of volumes: 140995

5.4.3 *Policy for Issue ff Books and Other Library Resources*

- Each user is provided with a Smart identity Card, Students should keep their Smart identity card safely, so that no one else misuses it. In case loss of identity card, duplicate will be issued only on payment of Rs.1000/-.
- Four books are issued for undergraduates and five for postgraduate students
- Two additional Books are issued for SC/ST students.
- Students are permitted to borrow CDs/ DVDs along with books.
- Reference books are made available for reading in library only.
- Books are issued for a period of two weeks, with one renewal for next two weeks.
- For late return of books, late fee of Rs.1.00 per day is collected.
- Reservation policy is provided.
- In case of a student is leaving the institution on long leave, completed course he/she should obtain a **"No due Clearance"** from the library by returning all the documents borrowed and paying other dues, If any.

5.4.4 *Working Hours of Library*

Monday to Friday:	**9.00 AM to 09.00 PM Saturday:9.00 AM to 04:30 PM**
Sunday:	**9:00 AM to 01.30 PM**

5.4.5 *Digital Library Facility*

The internet and e- resources accessibility is available at digital library, is open to all students from 9:00 am to 4:30 pm. The students are required to follow the instructions displayed at the library and digital library strictly in order to avoid withdrawal of these facilities for such students who violate any of the Rules.

5.5 *Placement & Training*

The Placement & Training Department is headed by a Dean (P & T) The main thrust of the Placement and training Department is in the following areas: Training of the students in interview skills, personal grooming, etc. Arranging industrial visits and other related activities. In-plant training Campus interview for graduating student by the industries organizing / arranging for summer placement and final placement for the students. Conducting Entrepreneurship development programs.

Placement Performance

Table: 5.5 Placement Performances

Particulars	2014-15	2015-16	2016-17	2017-18	2018-19
No. of offers made	1177	1200	1207	1143	1452
No of companies that visited RVCE	124	148	172	215	240

The Placement and training department conducts various **mandatory programs** to enhance the personality, communication skills and employability of graduates. The students who do not satisfactory complete these trainings may be barred from attending placement drives.

5.6 *Transportation Facility (Annexure-I)*

5.7 *Hostel Facility*

(a) There are four BOYS Hostels in the campus catering to over 1200 inmates.

(b) There are two Ladies Hostels located near to the college.

(c) All the hostels in the campus are equipped with modern kitchen equipment and solar heating facility.

(d) Hostels are provided with Internet & common TV Room, Indoor Games facilities.

- *Boarders are a part and parcel of the hostel blocks and mess Administration*
- *Boarders who excel in academics are given awards.*

Boarders are encouraged to take part in NSS, NCC, Rotract, Raag and Sports activities.

Name of the Hostel	Used by	No. of Rooms	Total occupancy
BOYS			
Sir. M.Visveswaraya	Final Year and PG	254	254
Diamond Jubilee (DJ)	First year UG	83	249
Cauvery Annexe	First year UG	30	90
Cauvery (First Floor + Part Second Floor)	Second Year UG	132	264
Cauvery (Part Second Floor + Third Floor)	Third year UG	132	264
Cauvery (Fourth Floor)	PG (M.Tech +MCA)	88	176
GIRLS			
Smt.Sushilamma & G K Srinivasaiah Memorial RVCE Girls Hostel	BE Students	66	132
Hiranya Hostel	1st Year BE Students	33	90
Sri Venkatadri Nilaya- RVCE Girls Hostel	1st Year BE / M.Tech / MCA Students	67	140

6.0. EXTRA CURRICULAR ACTIVITIES

The Cultural Activities in the college are conducted under the umbrella of 'CAT (Cultural Activity Team). The CAT has the following wings and activities:

6.1 *Cultural Activity Teams* (CAT)

The following are the activities which are very popular:

a) **CARV:** Circle of Acting in RV, a club to promote talent in dramatics. Students actively participate in its activities and have won many laurels.

b) **Music Club:** The music club provides ample opportunities to the students to display their talents in classical, light and modern / western styles of music (both in vocal and instruments and in dance). **AALAP, FOOT PRINTS**

c) **Sanskriti (The Arts Club):** A club to promote fine arts and crafts.

d) **Kannada Sangha:** It provides an opportunity to non-Karnataka students to get an exposure to Karnataka's heritage and language, through Kannada programs.

6.2 *National Service Scheme* (NSS)

The NSS Unit of RVCE is very vibrant and organizes many activities to complement the needs of society. NSS- RVCE also educates various stake holders of the society, which not only helps the community, but also provides an opportunity for the students to understand the conditions prevalent in the community and inculcate leadership qualities. NSS-RVCE regularly organizes Voluntary Blood Donation Camp, Voluntary Eye Pledge Camp, Orphanage visit, Eye screening Camps, Programs to promote National Integration and inculcate patriotism, Celebration of National Festivals and other events of national importance, Campaign regarding Drug abuse, Road Safety campaigns, Swachh Bharat initiatives etc.

6.3 *National Cadet Corps* (NCC)

NCC under 1 KAR Signal Regiment has been started during 2008. A maximum of 100 students are eligible to join NCC on a first cum first served basis. The selection process is monitored by NCC authorities.. NCC classes / parades/ activities are organized during Saturday afternoons every week.

6.4 *Sports Facilities*

The college encourages sports activities by providing excellent infrastructure and coaching facilities. The RVCE Cricket, Basketball, Badminton, Table Tennis and Chess teams have won many trophies and Championships. The College provides facilities for outdoor and indoor games. It has a modern Multi-Gym facility. Sports Persons are honored by the Management. RVCE believes sports activities keep the young minds fresh and active.

6.5 Departmental Associations

Every Department has its own technical association which provides a forum for technical knowledge assimilation, organizational capabilities and leadership.

6.6 RAAG

The youth club of RVCE conducts programs inculcating social awareness among students. It also conducts skill development and literacy programs.

6.7 ROTRACT *Club*

This club is sponsored by the Rotary club of Bangalore South: it conducts a number of socio-cultural activities on and off the campus like blood donation camp, book and stationery distribution to needy, social awareness programs etc.

7.0 DISCIPLINARY MEASURES

7.1 *General Discipline*

a) The students will not assist or even associate himself / herself in any activities which disturbs or is likely to disturb the peace and smooth working of the institution.

b) The tuition fee shall be paid by the student before or at the time of admission / registration in every academic year.

c) The student shall follow all the rules and regulations laid down by the college authorities/management from time to time.

d) Students will have to maintain regular attendance. In case of attendance less than 75% the student will not be allowed for the ensuing CIE tests. Cumulatively he should have over 85% attendance as mentioned earlier, to be eligible for the semester end exams. In case of any absence, they should have to provide appropriate proof (medical certificate /letter from parent

etc) and information, within three days of the absence to the department, the teacher concerned and the counselor.

e)   In case of planning to participate in any curricular (including paper presentation/competition), co-curricular and extra-curricular activities, prior permission has to be sought through proper channel. Further immediately within three days, on return from the event, should also provide the necessary proof to the counselor, the department, and the teacher concerned. Otherwise they will not be considered for any attendance benefit and the certificate will not be considered for credits for the paper on Innovation and Social Skills.

RECOVERY OF LEGAL CHARGES AS APPLICABLE
The institution shall recover legal expenses incurred towards representing/defending such petition/suit before any court of law by making the Institution a party for their personal benefit (eg. Name change etc) and the parents /students shall abide by such reasonable condition and pay such amount which would be on actual.

7.2   *Anti Ragging Rules*

a)   As per the orders of the Supreme Court, Govt. of India, UGC, AICTE, Govt. of Karnataka, VTU, "Ragging" is a Criminal Offence leading lo Non-Bailable Imprisonment. Students should not indulge in ragging or support ragging directly or indirectly in whatsoever manner. Severe action will be initiated against those indulging in ragging or supporting ragging.

b)   Ragging means causing, inducing, compelling or forcing a student, whether by way of a practical joke or otherwise, to do any act which detracts from human dignity or violates his/her person or exposes him/her to ridicule or to forbear from doing any lawful act, by intimidating, wrong fully confining or injuring him or by using criminal force on him / her or by holding out to him / her any threat of such intimidation, wrongful restraint, wrongful confinement, injury or the use of criminal force.

c)   Ragging Menace is a criminal offence and such of the students who involve in ragging will be rusticated from the college. Further, their University degree and conduct certificates will be embossed in BOLD letters with a statement that they indulged in ragging.

d)   Students indulging and/or encouraging ragging will not be eligible for placement services, hostel facility, air concession, railway concession, scholarships, passport/visa clearance etc.

e)   Photographs of students who have been involved in ragging shall be published in the notice board and also published in local newspapers.

f)   Enquiry committee's decision regarding the punishment is final.

g)   The offence of ragging is not only punishable under Section 116 of the Karnataka Education Act, 1983, but also under various provisions envisaged in Sections 109, 110, 111, 112, 113, 114, 115, 116,302,305,306, 339, 340, 341. 342, 343, 344, 346, 347, 354, 359, 368,448,451 and 506 of the Indian Penal Code (IPC).

7.3   *Dress Code*
a)   Dress code is defined based on the need for safety, security, functionality and comfort.
b)   Students are required to wear decent outfits.
   i.   Girls are expected to wear Chudidars / Salwars and Kameez with sleeves. Jeans with decent tops with sleeves are allowed. No tight fitting clothing is permitted.
   ii. Boys are expected to wear shirts and trousers. No tight fitting clothing is permitted.

iii.   Displaying offensive and obscene slogans and icons on clothing is prohibited.

c)   Uniforms for Labs is white coats and for workshops steel grey uniform.

d)   Students who do not adhere to the dress code are liable to be rusticated from the institution.

7.4   *Mobile Phone*

a)   The **possession & use** of Mobile Phones by the students in the academic areas inside the campus is banned. However, for the convenience of the students the mobile lockers have been provided in every department. **The parents/ guardians are advised not to call to the students on the mobile phones from 9.00 AM to 5.00 PM. In case of emergency, please contact respective HoD or Counselor.**

b)   If a student is found conversing on mobile or in possession of a mobile phone in any of the academic areas, the mobile will be confiscated and fine of Rs.5000/- will be levied for violating the rule.

7.5   *Security Issues*

a)   Wearing of identity card in such a way that it is clearly visible, is a must inside the campus for security reasons. Entry in to the campus without valid Identity card is strictly prohibited. The faculty and the security personnel have the authority to check the ID cards

b)   Motorcyclists must remove their helmets before entering the College campus.

c)   College Security Staff have the right to ask individuals to identify themselves. Action shall be initiated against those persons who refuse to identify themselves.

d)   The students are advised to park their vehicle in the designated parking areas

7.6   *Support Services*

a)   Photocopying Facilities

b)   Banking Facilities with ATM

c)   Post Office

d)   Stationery Stores

e)   Food Court (Two)

f)   Health Centre

g)   Pharmacy

h)   Meditation Centre

IMPORTANT NOTE:

In case of violation of College / Hostel norms & rules and regulations, a student may be prevented from continuing in that semester and / or appearing for the semester examination depending on the outcome of the Disciplinary Action Committee report. Ignorance of any rule does not condone any misbehavior.

RV College of Engineering®
Mysore Road, Bengaluru - 59
Bus Services Revised (wef: 29.7.2019)

Route No	Route Details	Transporter	Start Timing	Staff/Student Bus
1	**Udupi Garden**, Jayadeva Cardiology, Ragi Gudda, Jayanagar 9th Block (Noor Store), S.G.H. Bus Stop, Coffee Day, Telephone Exchange, Bangalore High School, K.R.Road (Shastri Bakery), Indira Nursing Home, KIMS, D.G. Petrol Bunk, Hosakerehalli, RVCE.	Udupi Garden **(National Travels (NT))**	7.20am	Student
2	RVDC, Brigade Millennium, 15th Cross, JP Nagar, Sarakki , Kadirenahalli , GowdanaPalya, Chikkalasandra, Uttarahalli, RR Nagar/Gate, RVCE.(return via R V Layout)	Brigade Millenium **(NT)**	7.20am	Student
3	RVCE Girl's Hostel - Krishna Garden, R. R. Nagar) - RVCE. (Return via Mylsandra)	Krishna Gardens **(RVCE)**	8.10am	Student
4	Venkatadhri Girls Hostel (Near JSS College, Uttarahalli), Via Krishna Garden, RR Nagar, Pattanagere,– RVCE (Return via Mylsandra, R V Layout)	Venkatadhri Hostel **(RVCE)**	8.00am	Student
5	**Yeshwanthpur Police Station/Bus Stand,YPR railway station,** Nandini layout, Srinivasa Temple, ISKON Metro Stop, Rajajinagar 1st Block Flyover Stop, Modi Hospital, Shankar Mutt, 8th Main (Basaveshwaranagar), Havanur circle, Vijayanagar, Maruti Mandir, Chandra Layout, RVCE	Yeshwanthpur / Nandini Layout **(NT)**	7.15am	Student
6	**Hebbal Bus Stand,** Mekhri Circle, Rajamahal Guttahalli, Sadashivanagar (Bhashyam Circle), 18th Cross (Malleshwaram), K.C.General Hospital, Harishchandra Ghat, Navarang, Power House, Dhobi Ghat , Vijayanagar Bus Stand, Bunt's Sangha, RVCE.	Hebbal/Mekhri Circle/Malleswaram **(NT)**	7.00am	Student
7	Koramangala 4th Block(BDA Complex,Canara Bank, KFC), Sony world (after signal),Dell (Opp.Hyundai), Domlur (opp.KHT motors), Indiranagar (opp.Bata show room, CMH Hospital Bus stop, CMH road KFC after signal, Metro station), Ulsoor ACP Office, KidsKemp (behind Kids Kemp after signal),Shoole Circle(signal),Baldwin school, Richmond Circle(under the flyover junction), Corporation, Town Hall, RVCE.	Koramangala / Indiranagar **(NT)**	7.00am	Student

8	Mahadevpura HDFC Bank (B.Narayanapura , EMC-2 , Karthiknagar Bus stop , Marathalli Kalamandir, JP Morgan , Belandur Eco –Space , Akmey Harmony Apartments , Akmey Harmony Apartments , Sarjapura/Iblur Signal , Agara Signal , SBI Bank HSR Layout 24th Main, HSR BDA Complex , Jananai Tour & Travels/Furnhill Apartments , Central Silk Board , Jayadeva signal , JD Mara Signal , Delmia Signal , Sarakki, DG Petrol Bunk, Hosakerehalli, **RVCE**	Mahadevapura /Sarjapura/ HSR **(NT)**	6.50am	Student
9	Madhavan Park, Vijaya Bank (11th Main), Himalaya Stores (18th Main), Pump House (Carmel Convent Road), IX Block (East Circle), BPRI, Sevakshetra Hospital, (40th Cross, 9th Main) Junction, JSS School (38th Cross), 19th Cross, K.R Road, KIET, Shamanna Park (Nagasandra Circle), Ramakrishna Ashram, Canara Bank, Hanumantha Nagar, Bank Colony, Ring Road, Hosakerehalli, PES University, **RVCE**	Jayanagar/Han umanthnagar **(NT)**	7.30am	Staff
10	Shivajinagar (Ramda Hotel), Shivananda Stores, Seshadripuarm, Central, Malleshwaram Circle, KCG Hospital, Harishchandra Ghat, Mariayappana Palya, Navarang Theatre, ESI, Rama mandira, Prasanna Theatre, Vijayanagar Bus stand, BMTC Depot, Attiguppe, BHEL Circle, RVCE	Shivajinagar/ Malleswaram/ Vijayanagar **(NT)**	7.30am	Staff

Note: Departure from Campus: Evenings: Mon-Fri – 5pm.   Saturday (on working days): 1.45pm

1. Route no 5 : Starting Point: Yeshwanthpur Police Station/Bus Stand via Yeswanthpur Railway station & Nandini Layout
2. Route no: 6 : Starting Point will be Hebbal Bus Stand via Mekhri circle

Transportation Charges:

1. Regular College Buses: Rs. 25,000/- for full year
2. For Girls Students staying in Krishna Gardens & Venkatadari Hostels: Rs. 12,000/- for full year.
3. For final semester students fee is Rs. 12,500/- with prior permission. For Girls Hostels: Rs.6,000/- with prior permission

Vehicle Parking Charges for Students- full year:

4 wheelers: Rs. 2,714/-, 2 wheelers: Rs. 1,360/-

All amounts payable through **DD favoring: "R V College of Engineering", payable at**

   Bengaluru/Online payment – to be reconfirmed with Accounts Department

For enquiries no: 080 – 67178368 - Mr. S. K. Venkatesh – Admin Manager. **Vehicle Parking Passes – Ms. Anuradha (Ph. 67178120)** **Daily Operations: 080 – 67178060 – Security Officer**